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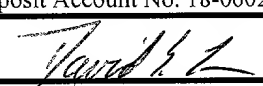
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<b>Utility Patent Application Transmittal</b> <small>(only for nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No	FON 106	DATE	November 22, 2000
	Inventor (s): Sol GINZBURG, et al			
	TITLE:	MOBILE MRI SYSTEM AND METHOD OF PROMOTING USE OF MRI SYSTEM		

<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents	<b>Assistant Commissioner for Patents</b> ADDRESS TO: Box Patent Application Washington, DC 20231				
<p>1. <input checked="" type="checkbox"/> Patent Application Fee Determination Record (Submit an original, and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Specification [Total Pages 26] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross References to Related Applications - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure</p> <p>3. <input checked="" type="checkbox"/> Drawing(s) Figures 1-4 [Total Sheets 4]</p> <p>4. Oath or Declaration [Total Sheets ] <input type="checkbox"/> Newly executed (original or copy)</p>		<b>ACCOMPANYING APPLICATION PARTS</b> <p>8. <input type="checkbox"/> Assignment &amp; Recordation Cover Sheet [Total pages ]</p> <p>9. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 [Total Pages ] [Total References ]</p> <p>12. <input type="checkbox"/> Preliminary Amendment [Total Pages ]</p> <p>13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)</p> <p>14. <input type="checkbox"/> Small Entity Statement(s) [Total Pages ]</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s) The rights of priority are claimed under 35 U.S.C. § 119 of _____ Application No. _____ Filed _____, 2000</p> <p>16. <input type="checkbox"/> Other: _____</p>			
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## MOBILE MRI SYSTEM AND METHOD OF PROMOTING USE OF MRI SYSTEM

A right of priority is hereby claimed pursuant to 35 USC  
§119 of U.S. Provisional Patent Application Serial No.60/167,012,  
5 which was filed on November 23, 1999.

### Field of the Invention

10 In general, the present invention relates to an operational  
MRI system that may be moved easily to different locations. The  
present invention also relates to promoting the use and sale of  
an MRI system by showcasing the system and its method of  
operation, in a mobile set-up. In particular, the present  
invention is an operational or mock-up MRI system that may be  
mounted inside of a trailer that may be transported by a truck.  
15 The inside of the trailer may be outfitted to facilitate  
demonstration of the process of performing an MRI scan. Through  
the demonstration of the operation of the system, sales  
opportunities may be enhanced.

### Background of the Invention

20 Magnetic resonance imaging (MRI) is one of the most  
versatile and fastest growing modalities in medical imaging.  
Since the discovery by Dr. Raymond Damadian in the early 1970s  
that nuclear magnetic resonance techniques may be used to scan  
25 the human body to yield useful diagnostic information, medical

NMR imaging devices have been developed for obtaining NMR images of the internal structures of patients. Subsequently, much effort has been expended to improve and refine the techniques used for obtaining NMR images, as well as to determine the diagnostic utility of NMR images. As a result, NMR imaging, or magnetic resonance imaging (MRI), as it is sometimes known, has today proven to be an extremely useful tool in the medical community for the purposes of detecting and diagnosing abnormalities within a patient's body.

Such MRI systems may be large and expensive. Generally, use of these systems is complicated, and may be uncomfortable for the patient undergoing the procedure. Different models of systems manufactured by a manufacturer, and models sold by competing manufacturers, vary in many respects. Different models have widely varying technical capabilities from the viewpoint of diagnostic utility, and vary as to the comfort level afforded to the subject patient. Personnel making purchasing decisions for a health care facility, usually hospital administrators, may be typically presented with marketing material in the form of written information describing MRI systems. Given such information, certain comparisons may readily be made to help determine which system should be purchased, but other intangible, important factors simply cannot be evaluated in a meaningful way based on a written description. These intangible factors include

ease of use of the system, and patient comfort, among other considerations.

Besides the basic ergonomic considerations for taking these intangible factors into account, they also have a real effect on patient throughput, and, therefore, the hospital's financial bottom line. For example, the more uncomfortable an image scan is for a patient, the longer that patient will require to rest between scans, slowing the overall procedure. Discomfort for the patient may also lead to patient movement, which may cause a corrupted or incomplete scan that further increases the scan time or even requires a re-scan. Further, if the system is complicated to operate, a longer amount of time may be necessary when conducting a scan for operator setup, loading information into the apparatus with respect to the conditions and sequencing for collection of data, etc. Therefore, the total scanning time may be quite long. It is apparent that one of the major problems with medical NMR imaging is patient throughput. Numerous efforts have been devoted to the development of techniques for obtaining images in a shorter period of time, but the results of these efforts may not be really apparent from a written description of the system, and must be experienced or observed in person to be appreciated.

MRI systems have improved in recent years. Scans are faster in general, and scan times have improved tremendously for

particular models. The scan space may also be more open, and therefore more comfortable for the patient undergoing the scan. However, many patients still regard an MRI procedure as a long, claustrophobic experience. Most patients, and many doctors and health care facility administrators may be unaware of the progress made in ensuring that an MRI diagnosis is a more comfortable experience than it was years ago. As a result, patients who could benefit from an MRI diagnosis may opt not to have one, leading to possible mis-diagnosis of injury, undue pain and discomfort, and wasted money on the part of the patient and insurance companies. Such waste of money is a major area of concern for health care providers, insurance companies, as well as local and national legislators.

Further, doctors who may be unaware of the advances made in MRI technology may not prescribe an MRI scan to a patient who could benefit from such a procedure. For example, the doctor may incorrectly believe that the discomfort associated with the scan would be greater than that of the injury itself, which will then go untreated or otherwise mistreated due to the doctor's mistaken impression. Further, the doctor may have the erroneous impression that MRI scans do not provide images having a fine enough resolution to diagnose a particular problem and may seek other, less accurate and more expensive means of diagnosing a patient's problem.

Therefore, there is a great need on the part of hospital administrators to learn about advances in MRI technology, and to learn about the latest models of systems and what may be offered so that they may be able to make a more informed decision when ordering an MRI system for the hospital.

There is also a great need for doctors and patients to learn about advances in MRI technology. This would help doctors to more effectively utilize the technology at their disposal to better and more economically treat their patients. This would also help patients realize and understand the options that may be available to them in seeking treatment, both as to the capability of MRI scanning and as to which models of MRI scanning systems may be better so that the appropriate facility may be chosen. In extreme cases, a demonstration would enable some patients to overcome the fear associated with undergoing MRI diagnosis.

Further, there is a need for MRI system manufacturers and marketers to educate hospital administrators in advances in MRI technology, as well, by demonstrating the capabilities of particular models of MRI systems, in order to increase sales of MRI machines. It is also in the interest of MRI system manufacturers and marketers to educate doctors in advances in MRI technology and in demonstrating the capabilities of particular models of MRI systems, in order to encourage the recommendations of doctors to hospital administrators to purchase their model of

MRI system. It is also in the interest of MRI system manufacturers and marketers to educate patients in advances in MRI technology and in demonstrating the capabilities of particular models of MRI systems in order to alleviate their fears and concerns regarding undergoing an MRI diagnostic procedure, thereby encouraging future use and potentially sales of MRI systems.

However, because MRI machines are typically large and expensive, it is not practical, conventionally, to demonstrate the use of a particular model when attempting to make a sale to a hospital or other health care facility.

#### Summary of the Invention

It is therefore an objective of the present invention to provide an MRI system that is easily demonstrated to hospital administrators, doctors, and patients, and to health care facility personnel in general.

It is a further objective of the present invention to provide an MRI system that may be demonstrated to hospital administrators, doctors, and patients at their convenience.

It is also an objective of the present invention to provide an MRI system for demonstration that is operable, so that potential purchasers and users of the system may more realistically assess the system's capabilities.

It is an additional objective of the present invention to provide a mock-up MRI system that realistically demonstrates an MRI diagnostic procedure, but at a much lower cost than an actual operational MRI system.

5        It is another objective of the present invention to provide an MRI system demonstration set-up that may be used as a marketing tool for the sale of such MRI systems.

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The apparatus of the present invention may be a trailer or other mobile carrier that includes an MRI system set-up. The set-up includes an MRI scanner that may be operational or may be a mock-up system design to simulate the operation of an actual MRI scanner. The system also includes monitoring equipment for presenting real or simulated MRI imaging information. Other equipment, either real or designed for demonstration purposes only, that is necessary to or that facilitates an MRI diagnostic procedure may also be included. Preferably, the equipment may be sheltered inside of the trailer, and may be set up such that observers may easily view the scanner and other equipment from all advantageous angles. Further, the equipment may be arranged  
20    so that an observer may put himself in the place of a patient undergoing an MRI diagnostic procedure, so that a first-hand evaluation of the equipment may be made.

This setup may be used to demonstrate operation of the system. The terms "demonstrate" and "presentation", as used



herein in any form, refer to the operation of either a mock-up system or an actual operational system, for the benefit of observers. These observers include the previously-mentioned patients and health care facility personnel. While one purpose of such demonstration may be to promote education in the field of MRI, another aspect of the invention may be to use such demonstration for marketing purposes.

#### Brief Description of the Drawings

The foregoing objectives and a better understanding of the present invention will become apparent from the following detailed description of example embodiments and the claims when read in connection with the accompanying drawings, all forming a part of the disclosure of this invention. While the foregoing and following written disclosure focuses on disclosing example embodiments of this invention, it should be clearly understood that the same is by way of illustration and example only and the invention is not limited thereto. The spirit and scope of the present invention are limited only by the terms of the appended claims.

The following represents brief descriptions of the drawings, wherein:

FIG. 1 shows a plan view of the mobile MRI system of the present invention, ready for transport.

FIG. 3 shows a rear elevation view of the mobile MRI system of the present invention, ready for demonstration.

## Detailed Description of the Invention

Referring to FIG. 2, the MRI scanner 2 may be mounted in a rear portion 4 of the trailer 6. Other diagnostic equipment 8 used to collect scan data and present useful information derived from the data, may be located in another area of the rear portion 4 of the trailer 6. Cabling harnesses and conduits may be

provided in the trailer so as to connect the scanner 2 with the equipment 8. It is also contemplated that an infrared system or other wireless link may be used to electrically couple the components. Of course, if the system is not operational, and is merely a mock-up, the scanner 2 and the equipment 8 need not be coupled at all. The front portion 10 of the trailer 6 may be used for storage, or as an additional access space for entering the scanner 2. The front portion 10 of the trailer 6 may also be used as a reception or conference center for observers, and may also be used as a presentation area of the overall demonstration. This may be accomplished by providing an image display that shows the scan image or any other useful image. This front portion 10 may be fully audio-visually capable, including access hardware and ports for connection to the Internet or any other data network, as well as voice and fax hardware and interfaces.

The trailer 6 includes access doors for admitting observers to the interior of the trailer 6. The exemplary trailer 6 shown in FIG. 2 has a front access door 12 and a rear access door 14. The rear access door 14 provides access for observers to the rear portion 4 of the trailer 6, and the front access door 12 provides access to the front portion 10 of the trailer 6. An interior door 16 connects the front portion 10 with the rear portion 4.

As shown in FIG. 2, the trailer may be configured for transport of the MRI scanning equipment. The exemplary scanner 2

shown in the figure may be a mock-up that could represent any type of scanner, including a four-person scanner. Any type of mock-up or operational scanner may be contemplated for use in the system of the invention. Because the exemplary scanner 2 may be  
5 wider than a width of the trailer, it may be designed to partially collapse in one lateral direction for ease of transport.

Referring to FIG. 3, the trailer 6 may be expanded in the area surrounding the scanner 2, to an open position in order to accommodate the scanner 2 in its fully operational configuration. That is, two retractable extensions 18, 20 may be provided on either side of the trailer. These extensions may be pulled out from the sides of the trailer. Once this area of the trailer has been expanded, the scanner may also be expanded, and partially  
5 moves into the additional area provided by the trailer extensions 18, 20. The configuration shown in FIG. 3 is a preferred embodiment of the invention; other expansion configurations may be contemplated within the scope of the invention. For example, the trailer may have only one extension, and the scanner could  
20 expand in one lateral direction only, moving into the additional area provided by the sole extension.

Referring to FIG. 4, the two trailer expansions 18, 20 are shown in a rear elevation view of the invention. As shown, the extension 18 may be open to the outside of the trailer. In such

a case, the bottom portion 22 pulls out from the side of the trailer and rests on at least one stand 24 for support. A panel 26 pulls out or swings up into place as an overhang to provide protection from the elements. Alternatively, the extension 20  
5 may be a fully closed structure that pulls out from the side of the trailer and rests on at least one stand 28 for support.

The stands 24, 28 may remain attached to the undersides of the respective trailer extensions 18, 20 when the extensions are put back into place for transport. This is possible because the stands 24, 28 may be attached to the trailer extensions 18, 20 by adjustment mechanisms 30, 32. When the extensions 18, 20 are retracted for transport, as shown in FIG. 5, the adjustment mechanisms 30, 32 cause the stands 24, 28 to be lifted off the ground, so as not to impede travel of the trailer. When the trailer extensions 18, 20 are disposed in the extended configuration, the adjustment mechanisms 30, 32 allow the stands 24, 28 to be lowered until the bottoms of the stands 24, 28 reach the ground so that the stands 24, 28 can assist in supporting the weight of the trailer extensions 18, 20. For example, the  
20 adjustment mechanisms 30, 32 may be threaded rods that engage threaded bores in the main bodies of the stands 24, 28. Thus, turning a stand around the axis of the rod will raise or lower the stand with respect to the trailer extension, depending on the direction of the turning. Other adjustment mechanisms may be

contemplated as being within the scope of the present invention. Because the stands 24, 28 may be individually adjustable, secure support for the trailer extensions may even be achieved on uneven terrain.

5           According to another aspect of the present invention, a method of marketing and promoting the use of an MRI system may be provided. As discussed previously, the scanner and other MRI equipment on the trailer may be operational or it may be a mock-up. In either case, the entire construction may be transported by truck or other vehicle to a hospital or other health care facility. On reaching the destination, the truck may remain attached to the trailer with a brake mechanism in place, or the truck may be detached from the trailer. Prior to demonstrating the MRI system, the trailer extensions may be changed from the transport configuration to the operational configuration. That is, any open-type trailer extensions have the bottom portion pulled out from the trailer, the top panel put into place, and the support stand or stands lowered to the ground. Likewise, any closed-type trailer extensions may be pulled from the side of the trailer and have support stand(s) put into place.

Once the trailer extensions may be put in operational configuration, the scanner may be similarly expanded to encroach on the additional space provided by the extensions. If the system is truly operational, system checks may be performed. If

a mock-up is used, any visual indicators, presentations, or simulations to be used in the presentation may be tested.

Once the system is ready for demonstration, observers may be brought in. The particular presentation given will depend on the audience viewing the presentation. Health care facility administrators and doctors will be given similar demonstrations of the diagnostic capabilities of the system, as well as of the personnel requirements for operation of the system. The in-person demonstration will give the administrators a more meaningful idea of the space needed and the logistical and economical requirements of operating and maintaining the system, and of the power and cabling burden required to set up the system. An in-person demonstration such as this may be more likely to give the administrator a favorable impression of the system and of the company putting on the demonstration, giving the company an edge in competing for sales from the hospital's equipment budget. Positive feedback from doctors, which may be more likely if they are given a hands-on opportunity to operate the equipment (either alone or with a hospital or company technician), regarding the technical capabilities of the system will reinforce the favorable impressions of the administrators.

Patients who have previously undergone an MRI procedure may be asked to participate in the demonstration as observers. These observers may be subjected to a simulated MRI diagnostic

procedure, so that they may compare the experience using the demonstration system with that of the system used in the past. Favorable impressions of these observers, noted by doctors and administrators also observing, may enhance the chances of making  
5 a sale of the system. The impressions of these observers in the form of comparisons to their previous experiences may be particularly meaningful when recorded in the questionnaires described below.

Persons who have never undergone an MRI procedure but who have expressed an anxiety toward undergoing such a procedure will also be asked to participate as observers. This group of people may feel less nervous about undergoing a simulated MRI procedure. Their impressions of the experience, particularly in comparison to their expectations, may be especially meaningful in a  
5 marketing context. Favorable feedback provided by them to observing doctors and administrators will increase the likelihood of a sale of the system.

In order to make the presentation even more effective, questionnaires may be handed out to observers of all types prior  
20 to and after the demonstration. Questionnaires provided to observers and potential observers well in advance of the demonstration will help the company to tailor the demonstration to emphasize features of the system that address their most important concerns. The replies to these questionnaires may also



be helpful when compared to the impressions of the observers after the demonstration, in order to judge the effectiveness of the demonstration, as well as the performance of the system.

5 A follow-up questionnaire may also be useful in determining areas in which the system may be improved, and also in determining which improvements were underappreciated, helping to guide future designs and marketing for the system. For example, if many respondents indicate that scanning speed was the feature of the system that demonstrated the greatest advantage over competing systems, that aspect of the system may be given more prominence in sales literature and future presentations, to maximize the benefit of that feature. Future research may also then be directed to improving scanning speed even more. On the other hand, if many respondents indicate that overall scan space size of the system compared to other systems is not, or may not be, a factor in preferring the system to competing systems, this feature may be de-emphasized in sales literature, and money dedicated to research on improvements in this area may be diverted to other areas that are featured more prominently in  
10  
15  
20 answers to the questionnaires.

In summary, a mobile MRI system, whether operational or a non-operational mock-up, may be a useful tool in marketing the system. The mobile aspect of the system allows for in-person demonstrations of the operation of the system to several classes

5

20

WE CLAIM:

1           1. A method for demonstrating nuclear magnetic resonance  
2 (NMR) imaging devices, comprising:  
3           placing a portable NMR image scanning device and diagnostic  
4 equipment in a transportable container;  
5           transporting said transportable container to a location for  
6 viewing by potential customers;  
7           admitting the potential customers into a reception/viewing  
8 area in said transportable container; and  
9           demonstrating the operation of said NMR scanning device and  
10 said diagnostic equipment.

1           2. The method according to Claim 1, wherein said NMR image  
2 scanning device is partially collapsible and expandable  
3 horizontally.

1           3. The method according to Claim 2, wherein said  
2 transportable container is a trailer.

1           4. The method according to Claim 3, wherein said trailer is  
2 retractably expandable horizontally to accommodate said NMR image  
3 scanning device when fully expanded.

1           5. The method according to Claim 4, wherein said trailer is

2 retractably expandable horizontally when said trailer is  
3 stationary.

1 6. The method according to Claim 1, wherein said NMR image  
2 scanning device and said diagnostic equipment are fully  
3 operational.

1 7. The method according to Claim 6, wherein said NMR image  
2 scanning device and said diagnostic equipment are coupled  
3 electrically.

1 8. The method according to Claim 6, wherein said NMR image  
2 scanning device and said diagnostic equipment are coupled by a  
3 wireless link.

1 9. The method according to Claim 8, wherein said wireless  
2 link is an infrared link.

1 10. The method according to Claim 1, wherein said NMR image  
2 scanning device and said diagnostic equipment are mock-ups  
3 thereof.

1 11. The method according to Claim 3, wherein said trailer  
2 includes multiple entrances for said admitting of the potential

3 customers.

1 12. The method according to Claim 3, wherein educational  
2 and promotional materials are further disposed in said trailer.

1 13. A system for demonstrating nuclear magnetic resonance  
2 (NMR) image devices, comprising:

3 a transportable container; and

4 a portable NMR image scanning device and diagnostic  
5 equipment that are disposed in said transportable container;

6 wherein said transportable container is transported to  
7 a location for viewing by potential customers; and

8 wherein further the potential customers are admitted  
9 into a reception/viewing area in said transportable container to  
10 observe a demonstration of the operation of said NMR scanning  
11 device and said diagnostic equipment.

1 14. The system according to Claim 13, wherein said NMR  
2 image scanning device is partially collapsible and expandable  
3 horizontally.

1 15. The system according to Claim 14, wherein said  
2 transportable container is a trailer.

1           16. The system according to Claim 15, wherein said trailer  
2           is retractably expandable horizontally to accommodate said NMR  
3           image scanning device when fully expanded.

1           17. The system according to Claim 16, wherein said trailer  
2           is retractably expandable horizontally when said trailer is  
3           stationary.

18. The system according to Claim 13, wherein said NMR  
image scanning device and said diagnostic equipment are fully  
operational.

19. The system according to Claim 18, wherein said NMR  
image scanning device and said diagnostic equipment are coupled  
electrically.

1           20. The system according to Claim 18, wherein said NMR  
2           image scanning device and said diagnostic equipment are coupled  
3           by a wireless link.

1           21. The system according to Claim 20, wherein said wireless  
2           link is an infrared link.

1           22. The system according to Claim 13, wherein said NMR

2 image scanning device and said diagnostic equipment are mock-ups  
3 thereof.

1 23. The system according to Claim 15, wherein said trailer  
2 includes multiple entrances for admitting the potential customers  
3 therein.

1 24. The system according to Claim 15, wherein educational  
2 and promotional materials are further disposed in said trailer.

1 25. A method for promoting nuclear magnetic resonance (NMR)  
2 imaging devices, comprising:

3 placing a portable NMR image scanning device and diagnostic  
4 equipment in a transportable container;

5 transporting said transportable container to a location for  
6 viewing by potential customers;

7 admitting the potential customers into a reception/viewing  
8 area in said transportable container;

9 demonstrating the operation of said NMR scanning device and  
10 said diagnostic equipment for the potential customers;

11 requesting, from the potential customers, feedback  
12 information in response to the demonstration of the operation of  
13 said NMR scanning device and said diagnostic equipment;

14 receiving the feedback information from the potential

customers; and

modifying the demonstration of the operation of said NMR scanning device and said diagnostic equipment in response to the feedback information.

26. The method of Claim 25, wherein, in response to receiving the feedback information from the potential customers, said method further comprises the step of modifying the research and development of said NMR scanning device and said diagnostic equipment.

27. The method of Claim 25, wherein, in response to receiving the feedback information from the potential customers, said method further comprises the step of modifying strategies used to market said NMR scanning device and said diagnostic equipment.

28. The method according to Claim 25, wherein said NMR image scanning device is partially collapsible and expandable horizontally.

29. The method according to Claim 28, wherein said transportable container is a trailer.



1           30. The method according to Claim 28, wherein said trailer  
2 is retractably expandable horizontally to accommodate said NMR  
3 image scanning device when fully expanded.

1           31. The method according to Claim 30, wherein said trailer  
2 is retractably expandable horizontally when said trailer is  
3 stationary.

1           32. The method according to Claim 25, wherein said NMR  
2 image scanning device and said diagnostic equipment are fully  
3 operational.

1           33. The method according to Claim 32, wherein said NMR  
2 image scanning device and said diagnostic equipment are coupled  
3 electrically.

1           34. The method according to Claim 32, wherein said NMR  
2 image scanning device and said diagnostic equipment are coupled  
3 by a wireless link.

1           35. The method according to Claim 34, wherein said wireless  
2 link is an infrared link.

1           36. The method according to Claim 25, wherein said NMR



## 5

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FIG. 1

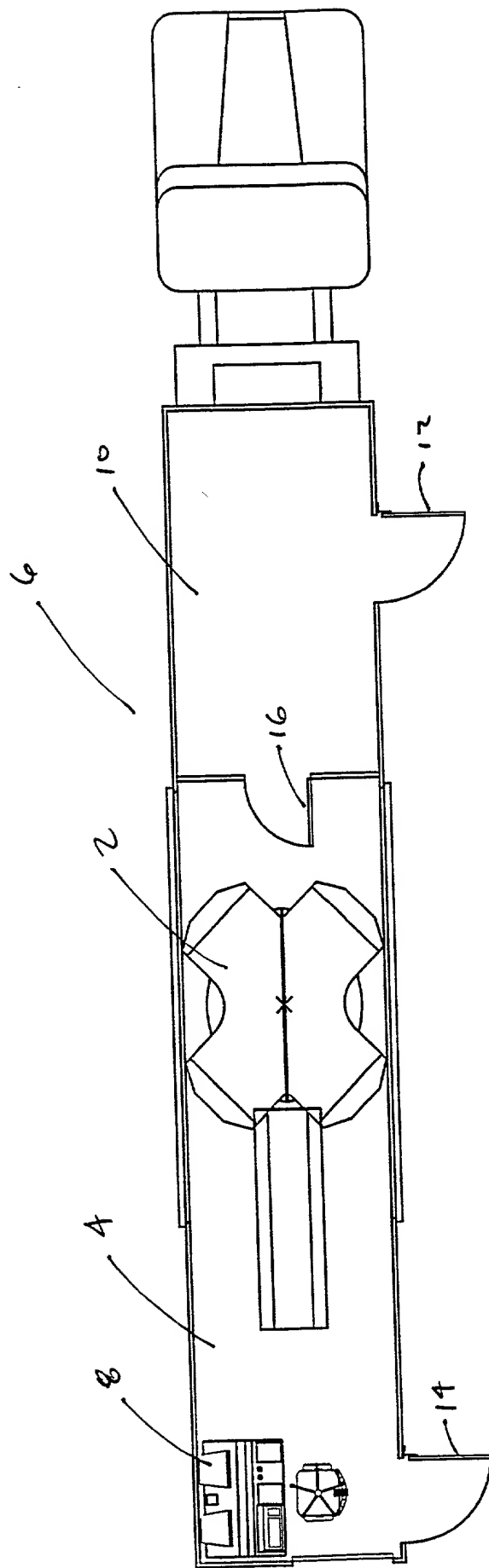
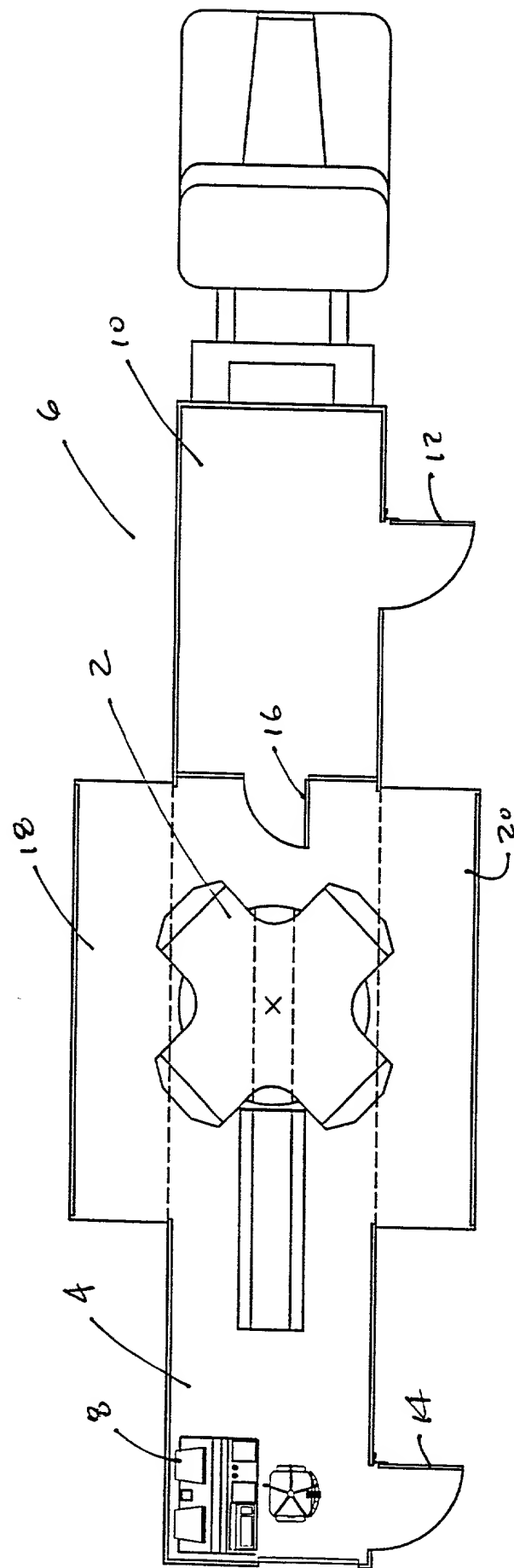


FIG. 2



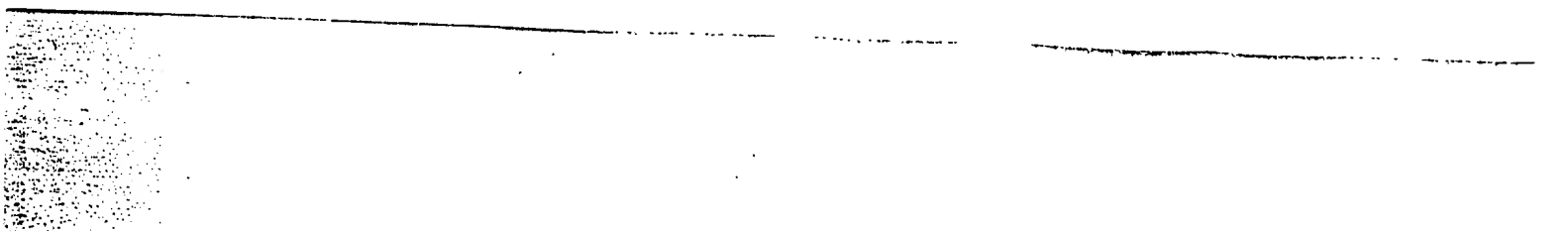
[illegible]

FIG. 4

